CCTV TESTER

User Manual

Table of Content

1. Safety Information.....2

1.1 Precaution before using the tester.....2

1.2 Precaution when using the tester 2

1.3 Precaution for battery charging and using.....2

2. Introduction 3

2.1 Features and function.....3

2.2 Standard items.....4

2.3 Function of each part.....5

2.4 Specification 6

3. Operation introduction 7

3.1 Power and battery 7

3.2 Main menu introduction 7

3.3 System setup 8

3.4 Video test 8

3.5 PTZ test 9

3.6 UTP cable test 11

3.7 Video generating 12

3.8 RS485 data test 13

1. Safety information

1.1 Precaution before using the tester

1) Please read the user manual before using the product..
2) Please check the input and output range of voltage or current at every input and output ports before connecting, so that the Tester can not be overloaded / damaged..
3) Operation environment:
   - Working temperature：-30℃－+70℃
   - Humidity 30%－90%
   - Voltage ： DC9V

1.2 Precautions when using the tester

1) Do not use the tester in damp humidity or leaking gas environments.
2) Do not touch the tester with wet hands.
3) Do not shock or shake the tester while in use to avoid damage.
4) Avoid to use the tester in the places of strong magnetism or electric wave.
5) Do not expose the ports or joints to dirt or liquid.
6) Do not disassemble the tester.

1.3 Precautions for battery charging and using

1) Use only original chargeable battery with the tester, when charge the batteries, please use the original power adapter.
2) Make sure not to disorient the polarization of batteries.
3) Do not short-circuit or disassemble batteries.

2. Introduction

2.1 Features and functions

1）Video test

The video signal and the quality of picture can be tested

2）PTZ control

The unit has the basic operation test of PTZ products, function includes pan/tilt, zoom in/out,

Preset setting and operation, auto scanning, speed adjustment etc; support multi-protocol and baud rate, communication via RS422 simplex and RS485 port.

RS485 protocol include: Pelco D,P, Samsung, ADT, YAAN, HY, LG, Minking, Vido, Videotrec……, Additional Protocols may be added as per customer requests.

Baud rate include :1200, 2400, 4800, 9600, 19200.

3）UTP cable test

The wiring condition (disconnected, short circuit and sequence of UTP cable) can be tested and show in the screen clearly.

4) Video signal generating

It can output Black and White screen to allow technician to inspect video monitor or DVR. The generation signal supports PAL or NTSC (do not support both meanwhile) system.

5) RS485 data test

It can test the RS485 data sent from control device, display the hexadecimal data content for engineer to analyze.

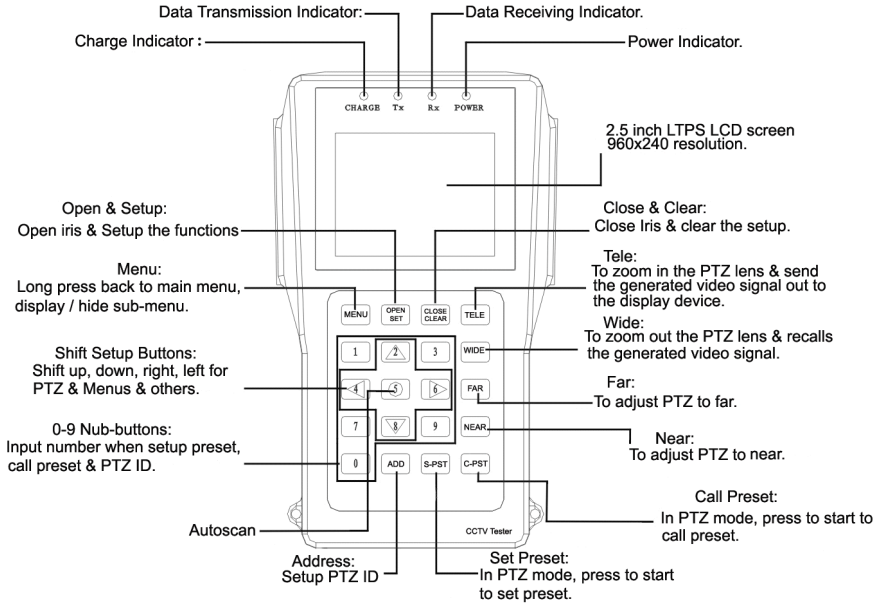
6) High performance battery

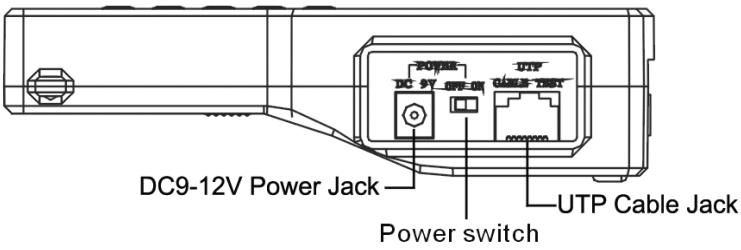
Built-in 2000mAh high capacity Li-polymer rechargeable battery and display the battery level on screen.

2.2 Standard items

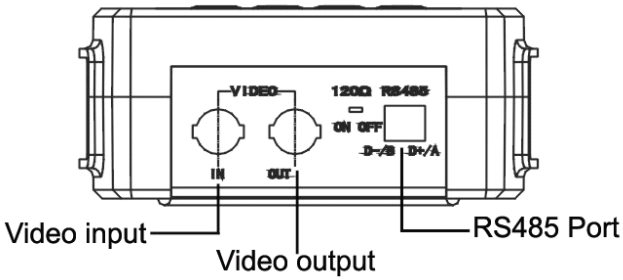
Items	**Quantity**
CCTV tester	**1**
UTP cable tester	**1**
7.4V Battery	**1**
RS485 connector	**1**
BNC connect cable	**1**
Sling	**1**
Power adapter	**1**
User manual	**1**
Test lead set	◘yes 1 set □No
12V power cable	□yes 1 set □No

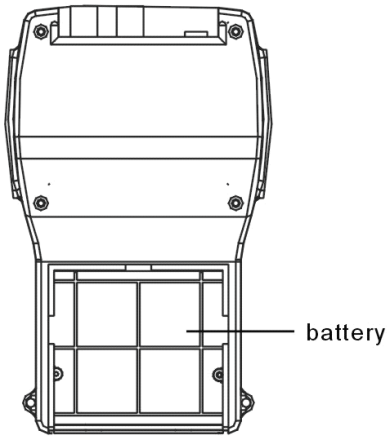
2.3 Function of each part


Data Transmission Indicator:
Data Receiving Indicator.
Charge Indicator :
Power Indicator.
CHARGE
Tx
Rx
POWER
2.5 inch LTPS LCD screen
960x240 resolution.
Open & Setup:
Open iris & Setup the functions
Close & Clear:
Close Iris & clear the setup.
Menu:
Long press back to main menu,
display / hide sub-menu.
Tele:
To zoom in the PTZ lens & send
the generated video signal out to
the display device.
MENU
OPEN SET
CLOSE CLEAR
TELE
Wide:
To zoom out the PTZ lens & recalls
the generated video signal.
Shift Setup Buttons:
Shift up, down, right, left for
PTZ & Menus & others.
WIDE
Far:
To adjust PTZ to far.
FAR
0-9 Nub-buttons:
Input number when setup preset,
call preset & PTZ ID.
NEAR
Near:
To adjust PTZ to near.
ADD
S-PST
C-PST
Call Preset:
In PTZ mode, press to start to
call preset.
Autoscan
CCTV Tester
Address:
Setup PTZ ID
Set Preset:
In PTZ mode, press to start
to set preset.


DC9-12V Power Jack
Power switch
UTP Cable Jack

-





2.4 Specification

Model No	BN-CT200
Video Test	
Signal Mode	NTSC/PAL automatically suitable
Display	2.5 inch LTPS LCD screen , 960 x 240 resolution
Video Input	1 Channel BNC

-

Video Output	1 Channel BNC
PTZ Control	
Communication	RS485 , RS422 Simplex
Protocol	Pelco _D,P; Samsung, ADT, YAAN, HY, LG, Minking,VIDO, Videotrec or customized.
Baud Rate	1200, 2400, 4800, 9600, 19200.
Other Function	
Supply power to camera	GA-K625P with an interface to supply power to the camera.
UTP Cable Test	Test UTP cable connection state and display on the screen.
Signal Generation	Output 1 channel video signal for testing monitor.
RS485 Data Test	Test the RS485 data sent from control device.
OSD Menu	English OSD menu, support multi-languages.
Keyboard	New design with number buttons, easy to operation.
Power	
Power Adapter	DC9V
Battery	1 pc Li-polymer rechargeable battery 7.4V, capacity 2000mAh
Rechargeable	5 hours recharging time, work for 8 hours or more.
Low Consumption	Sleeping mode, display battery power status.
Other Parameters	
Work Temperature	-30℃--+70℃
Work Humidity	30%--90%
Dimension	165*104*43mm

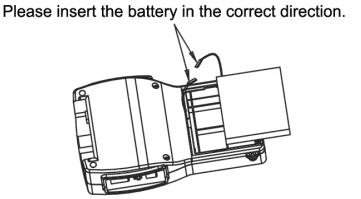
3、Operation Introduction

3.1 Power and battery

1) The power slide switch is located at the side of the tester. Turn the power slide switch to power on / off.
2) After the tester turning to sleeping mode, turn the slide switch on again to restart it.

-

3) The battery should be charged around 4~5 hours for full charge, when charged the Charge indication LED will be on, after full charging, the Charge Indication LED light will be off.
4) The charged battery can use for 8 hours or more.
5) When the battery indicator in system menu shows 25 (the states number includes 100,75,50,25), please recharge it for use.
6) The tester can be used when it is being charged.



3.2 Main menu introduction

Turn on the device, you will see the main menu, as the following shows:

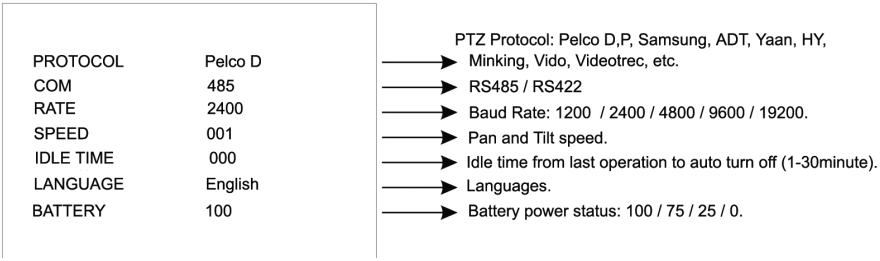
- 1-5 are five independent sub-menu.
- Press the corresponding number button to get into the sub-menu.
- Version number and S/N can't be edited.

1 System Setup	→ System Information
2 PTZ Control	→ PTZ Control function
3 UTP Test	→ UTP Testing function
4 Video Generation	→ Video generating function
5 RS485 Data Analysis	→ RS485 Protocol analyzing
Ver: V6.18 S/N:071108	→ Software Version and S/N

3.3 System Setup

1) Press "1" to switch to the system sub-menu, as follows:

-


PROTOCOL Pelco D
COM 485
RATE 2400
SPEED 001
IDLE TIME 000
LANGUAGE English
BATTERY 100
PTZ Protocol: Pelco D,P, Samsung, ADT, Yaan, HY, Minking, Vido, Videotrec, etc.
RS485 / RS422
Baud Rate: 1200 / 2400 / 4800 / 9600 / 19200.
Pan and Tilt speed.
Idle time from last operation to auto turn off (1-30minute).
Languages.
Battery power status: 100 / 75 / 25 / 0.

Pic 3 — 2

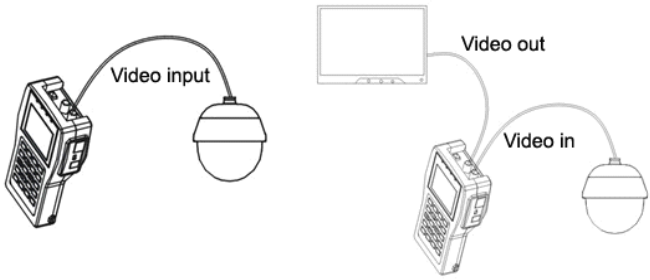
2) Press **"Set"** button to start the set up.
3) Press number **"2"** and **"8"** (PTZ direction button "UP" and "DOWN") to select the option, (Battery power status can be edited).
4) Press num-button **"4/6"** (PTZ direction button **"LEFT/ RIGHT"**) to adjust the parameter.
5) Press the "Clean" button to save, the characters in the menu will stop glitter.
6) Press the "Menu" button back to the main menu.

Notice:

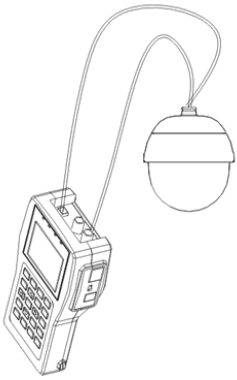
- ✓ Battery capacity display can't be adjusted.
- ✓ The device has 16 levels for the PTZ, 001 means minimum speed, 16 means the maximum speed.
- ✓ Standby time can be set from 000~030 minutes.

3.4 Video test

1) Connect the output terminal of video system to the video input BNC of tester, turn on the tester, the video can be display on the screen.
2) Connect the video output BNC of tester to the video input of other display device, it can display the video signal generated by the tester.



3.5 PTZ Test



1) Connection

- Connect the tester with the PTZ camera as the picture shows.
- In the main menu, press num-button “2” to switch to the PTZ testing function sub-menu, as the following:

Address :001	→ PTZ ID:001-225
Video mode: NULL	→ Video mode : PAL/NTSC/NULL

1) Operation

- Press the **ADR** button, input the PTZ address by using num-button.
- Press the **SET** button to save the setup.
- Press the **MENU b**utton to hide the hide the menu information and show a clean screen for camera image.
- Press **MENU** button for 1 second to back to the main menu.

2) PTZ Control

When connect the PTZ correctly, the camera image will be displayed in the screen of the tester, after setup the proper protocol, baud rate and the ID of the PTZ, user can control the PTZ as the following method:

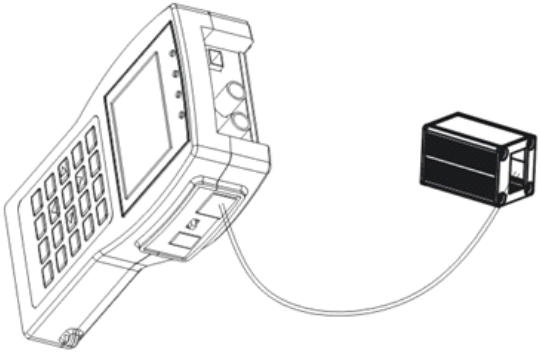
- Press **UP/DOWN/LEFT/RIGHT** to control the movement of the PTZ.
- Press **OPEN/CLOSE** to control the iris.
- Press **FAR/NEAR** to adjust the focus manually.
- Press **WIDE/TELE** to zoom in/out the camera lens.

3) Preset Position

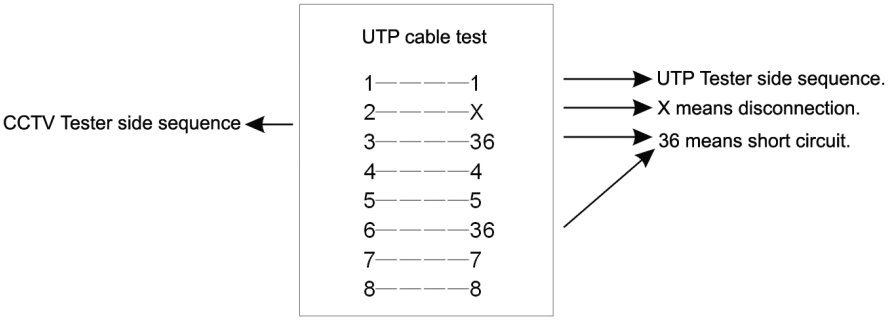
- Set up the preset position
  In the **PTZ** control mode, press **S-PST** button, then input the preset position number by the num-buttons, press **SET** to save the setup operation, user can use this method to set several preset positions one by one.
- Calling the preset position
  In the **PTZ** control mode, press the **C-PST** button, then input the preset position number by the num-buttons, press **SET** to save the setup operation, user can use this method to call several preset positions one by one.

3.6 UTP cable test

1) Connect the tester to the UTP cable tester as the picture shows:



2) In the main menu mode, press num-button **"3"** to switch to the UTP testing mode.
3) Press **SET** to start the test, UTP cable information will be displayed in the screen.
4) User can estimate the UTP cable connection from the information.

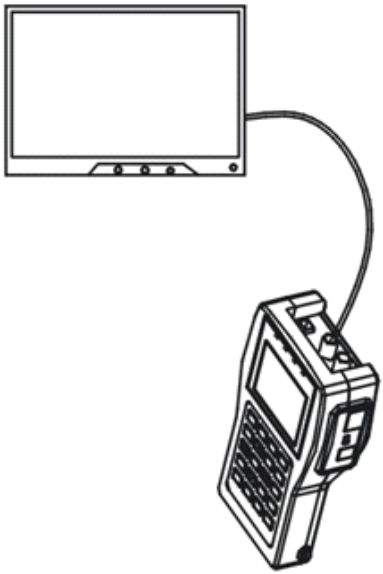


5) Press **Menu** button for to the main menu.

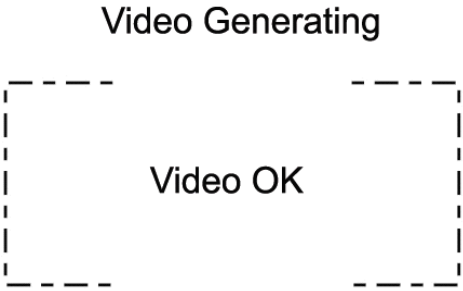
-

3.7 Video generation

1) Connect the tester to the display device as the picture shows:



2) Press num-button **"4"** to switch to video generation menu as follows:

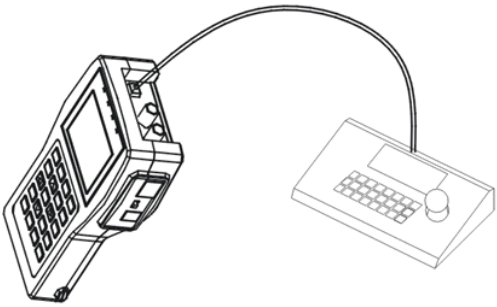


Notice: default system is NTSC.

3) Press Menu for 1 second to back to the main menu. Press the Return TO finish the video generation operation, or the Tester couldn't be switched to other function mode.

3.8 RS485 data test

1) Connect the tester to the control device as the picture shows:



2) In the main menu, press num-button “5” to switch to the RS485 protocol analyzing mode, as follows:

485 Data analyzing

3) Press SET to start the setup of baud rate.
4) Press UP/DOWN to select the tester’s baud rate, make it same with the controlling device’s.
5) Transfer the controlling device RS485 data to the tester, the hexadecimal signal data will be displayed on the screen as follows. Engineer can analyze the data to know if the controlling devices work with the correct protocol.

485 Data Analyzing

FF 01 00 02 40 00 43
FF 01 00 00 00 00 01
FF 01 00 04 40 00 45
FF 01 00 00 00 00 01

4. Warranty

4.1 Warranty Items

1) We provide one year warranty for all items at free of charge, and we will share the freight charge with customers.
2) We provide whole life repairing service for our products with proper charge, Customer should carry the freight charge.

4.2 Complemented items

1) The product and user manual are not assured for particular users and some special purpose of use.
2) If the products returing for exchanging was damaged, modified or miss accessory, we will charge the proper cost.
3) Don't offer exchanging service for special design products by customers.